

PROCEDURE COMMENTS

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CALLAWAY PLANT
ADMINISTRATIVE PROCEDURE

APA-ZZ-00703

FIRE PROTECTION OPERABILITY CRITERIA AND SURVEILLANCE
REQUIREMENTS

RESPONSIBLE DEPARTMENT Engineering

PROCEDURE OWNER Lee Eitel

WRITTEN BY Lee Eitel

PREPARED BY Lee Eitel

APPROVED BY _____

DATE ISSUED _____

This procedure contains the following:

Pages	<u>1</u>	through	<u>13</u>
Attachments	<u>1</u>	through	<u>8</u>
Tables	_____	through	_____
Figures	_____	through	_____
Appendices	_____	through	_____
Checkoff Lists	_____	through	_____

This procedure has 0 checkoff list(s) maintained in the mainframe computer.

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Revision 13

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DEFICIENCY LIST

Section	Deficiency Description	Constraints
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FIRE PROTECTION OPERABILITY CRITERIA AND SURVEILLANCE
REQUIREMENTS

1 PURPOSE AND SCOPE (COMN 22, 567, 571, 42367,
42183, 41094, 41226, 41285)

1.1 PURPOSE

- 1.1.1 Defines fire protection system operability requirements, surveillance requirements, and actions to be taken if a system or component is NOT Operable.
- 1.1.2 Provides a listing of Maintenance Rule applicable KC components with associated unavailable hours goals.

1.2 SCOPE

This procedure pertains to the following types of equipment that provide fire protection in the plant:

1.2.1 Fire Detection Instrumentation

- 1.2.2 Fire Suppression Water System
- 1.2.3 Spray and/or Sprinkler Systems
- 1.2.4 Halon Systems
- 1.2.5 Fire Hose Stations
- 1.2.6 Fire Barriers

2 DEFINITIONS

- 2.1 Simulated Fire Test Signal/Simulated Actuation Signal - The term Simulated Fire Test Signal/Simulated Actuation Signal is interpreted to mean actuation of an automatic Fire Protection System by any of the release mechanisms provided e.g., fire detectors, hand pull stations, fusible link/mechanical, manual, hydro/mechanical, etc.

- 2.2 Fire Area - That portion of a building or plant that is separated from other areas by boundary fire barriers. The physical location of boundary fire barriers is defined in each of the following documents:
- a) FSAR SP Figure 9.5.1-2
 - b) A-2800 series drawings
 - c) Attachment 6 of this procedure.
- 2.3 Safety-Related Areas and Non-Safety Related Areas
- 2.3.1 All areas in the following buildings are considered safety-related areas:
- Auxiliary Building
 - Reactor Building
 - Control Building
 - Diesel Generator Building
 - Fuel Building
 - Essential Service Water Pumphouse
 - Ultimate Heat Sink Cooling Tower
- 2.3.2 All other areas are considered non-safety related areas.
- 2.4 Wet Pipe System - A wet pipe system consists of a network of piping containing water under pressure. Automatic sprinklers are connected to the piping such that each sprinkler protects an assigned building area. The application of heat to any sprinkler head will cause that single sprinkler to operate permitting water to discharge over its area of protection.
- 2.5 Dry Pipe System - A dry pipe system is similar to a wet system, except that water is held back from the piping network by a special dry pipe valve. The valve is kept closed by air pressure maintained in the piping. The operation of one or more sprinklers will allow the air pressure to escape causing operation of the dry valve, which permits water to flow into the piping to suppress the fire. Dry systems are used where the water in the piping could be subject to freezing.

- 2.6 Deluge System - A deluge system does not use automatic sprinklers, but rather open sprinklers. A special deluge valve holds back the water from the piping, and is activated by a separate fire detection system. When activated, the deluge valve admits water to the piping network, and water flows simultaneously from all of the open sprinklers.
- 2.7 Preaction System - A preaction system is similar to a deluge system except that automatic sprinklers are used, and a small air pressure is usually maintained in the piping network to ensure the system is air tight. As with a deluge system a separate detection system is used to activate a deluge valve, admitting water to the piping. Because automatic sprinklers are used, however, the water is usually stopped from flowing unless heat from the fire has also activated one or more sprinklers.
- 2.8 Halon System - A Halon system is similar to a water deluge system except Halon is the extinguishing agent instead of water and a boundary has to be maintained for the halon to work.
- 2.9 Maintenance Rule Applicable Subsystem/Component - KC subsystems and associated components whose calculated core damage frequency exceeded the FIVE screening threshold of $1.0 \text{ E-}6$.

3 RESPONSIBILITIES

3.1 FIRE PROTECTION SYSTEM ENGINEER(S)

The Fire Protection System Engineer(s) is accountable for:

- 3.1.1 Ensuring the requirements specified in this procedure are in accordance with the Callaway Plant Standard Plant Final Safety Analysis Report (FSAR) Table 9.5.1-2, Fire Protection System Requirements.
- 3.1.2 Ensuring that this procedure specifies all fire protection systems and components that protect safety-related equipment in the plant.
- 3.1.3 Ensuring procedures are developed to perform all surveillances required by this procedure.
- 3.1.4 Developing and implementing assigned surveillance test procedures.

3.2 SURVEILLANCE SCHEDULING ENGINEER

The Surveillance Scheduling Engineer, is responsible for ensuring surveillances required by this procedure are administered in accordance with **APA-ZZ-00340**, Surveillance Program Administration.

3.3 DEPARTMENT HEADS

Department Heads are responsible for developing and implementing assigned surveillance test procedures and surveillance task sheets in accordance with **APA-ZZ-00340**, Surveillance Program Administration.

3.4 SS/CRS

The SS/CRS is responsible for identifying when fire protection equipment specified in this procedure is NOT Operable and for ensuring appropriate compensatory actions are taken in the required period of time.

4 PROCEDURE

4.1 BASIS FOR THIS PROCEDURE

4.1.1 Section 9.5.1.7 of the Callaway Plant Standard Plant FSAR specifies Operability requirements for the Fire Protection System, the required actions to be taken when equipment is not Operable, testing/inspection requirements and the basis for each.

4.1.2 The requirements provided in the FSAR are non-specific in nature and do not include lists of applicable equipment or detailed instructions for implementing the required actions or tests/inspections.

4.1.3 Attachments 1 thru 6 and the following sections provide lists of applicable equipment and detailed instructions necessary to implement the Operability requirements, required actions and testing/inspection requirements provided in the FSAR.

4.1.4 Attachment 7 contains a guideline for compensatory actions to be taken in buildings that have been identified by Ameren to be a commercial risk with values exceeding 1 million dollars.

- 4.1.4.1 Attachment 7 also addresses NEIL concerns with regards to the individual buildings.
- 4.1.4.2 Attachment 7 should be consulted anytime attachments 1 thru 6 do not apply to the situation.
- 4.1.4.3 The firewatch requirements as specified in Attachment 7 are to be met. However, minor deviations in the time required to establish a firewatch or deviations in the time between rounds do not constitute an SOS situation.
- 4.1.5 Attachment 8 Maintenance Rule Applicable Subsystems/Components
 - 4.1.5.1 Attachment 8 is for reference only and does not change Operability requirements or compensatory measures for applicable subsystems.
 - 4.1.5.2 Not all subsystem components are given in Attachment 8.
 - 4.1.5.3 Attachment 8 should be consulted to determine if the maintenance rule is applicable so appropriate actions can be taken to minimize the out of service hours.
 - 4.1.5.4 Fire impairments or maintenance on a fire protection system do not make other SSC's inoperable or non-functional unless specifically addressed in this procedure, a Fire Protection Impairment Permit or **EDP-ZZ-04107**, HVAC Pressure Boundary and Watertight Door Control.
- 4.2 FIRE DETECTION INSTRUMENTATION
 - 4.2.1 Operability Requirements

The Operability requirements for fire detection instrumentation are specified in Attachment 1.
 - 4.2.2 Action if Operability Requirements are Not Met

The action if Operability requirements are not met is specified in Attachment 1.

4.2.3 Surveillance Requirements (COMN 41751)

- 4.2.3.1 A sample of the required fire detection instruments which are accessible during plant operation and in rooms covered by more than one detector SHALL be demonstrated operable at least once per year.
- 4.2.3.1.1 If a detector fails, additional detectors SHALL be tested in order to meet the sampling plan requirement per **MSE-KC-FW001**, Fire Detection Functional and Supervisory Operability Test.
- 4.2.3.2 Each detection instrument in areas not covered by more than one detector SHALL be demonstrated operable at least once per year.
- 4.2.3.3 All fire detection instruments SHALL be demonstrated operable at least once per 5.0 years.
- 4.2.3.4 Fire detectors which are not accessible during plant operations SHALL be demonstrated operable during each cold shutdown exceeding 24 hours unless performed in the previous 12 months.
- 4.2.3.5 The NFPA Standard 72 supervised circuits associated with the detector alarms of each of the fire detector instruments SHALL be demonstrated operable at least once per year.

4.3 FIRE SUPPRESSION WATER SYSTEM

4.3.1 Operability Requirements

The Operability requirements for the fire suppression water system are specified in Attachment 2.

4.3.2 Action If Operability Requirements Are Not Met

The action if Operability requirements are not met is specified in Attachment 2.

4.3.3 Surveillance Requirements (COMN 41752)

- 4.3.3.1 The Fire Suppression Water System SHALL be demonstrated Operable:
- 4.3.3.1.1 At least once per 7 days by verifying the water level in each fire water storage tank exceeds 31 feet (260,000 gallons).

- 4.3.3.1.2 At least once per 31 days by starting the electric motor-driven pump and operating it for at least 15 minutes on recirculation flow.
- 4.3.3.1.3 At least once per 31 days by verifying that each valve (manual, power-operated, or automatic), except for those located inside Containment, in the flow path is in its correct position.
- 4.3.3.1.4 At least once per 3 years by performance of a yard loop and hydrant flush.
- 4.3.3.1.5 At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- 4.3.3.1.6 At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence.
- 4.3.3.1.7 At least once per 18 months by verifying each pump develops at least 1500 gpm at a system pressure of 135 psig.
- 4.3.3.1.8 At least once per 18 months by verifying each pump delivers at least 2250 gpm at a system pressure of 98 psig.
- 4.3.3.1.9 At least once per 18 months by cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
- 4.3.3.1.10 At least once per 18 months by verifying each fire suppression pump starts (sequentially) on decreasing pressure in the fire suppression header at a header pressure greater than or equal to 110 psig.
- 4.3.3.1.11 At least once per 3 years by performing a flow test of the system in accordance with Chapter 5, Section 11 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association.
- 4.3.3.2 Each fire pump diesel engine SHALL be demonstrated Operable:
 - 4.3.3.2.1 At least once per 31 days by verifying the fuel oil day tank contains at least 175 gallons of fuel.
 - 4.3.3.2.2 At least once per 31 days by verifying the diesel starts from ambient conditions and operates for at least 30 minutes on recirculation flow.

- 4.3.3.2.3 At least once per 92 days by verifying that a sample of diesel fuel from the fuel oil day tank, obtained in accordance with ASTM-D4057, is within the acceptable limits specified in ASTM-D975 when checked for viscosity and for water and sediment. (CSP-ZZ-07350, Diesel Fuel Oil Testing Program).
- 4.3.3.2.4 At least once per 18 months, during shutdown or with the other two fire suppression pumps Operable, by subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for the class of service.
- 4.3.3.3 Each fire pump diesel starting 24-volt battery bank and charger SHALL be demonstrated Operable:
 - 4.3.3.3.1 At least once per 7 days by verifying that the electrolyte level of each battery is above the plates and the overall battery voltage is greater than or equal to 24 volts.
 - 4.3.3.3.2 At least once per 92 days by verifying that the specific gravity is appropriate for continued service of the battery.
 - 4.3.3.3.3 At least once per 18 months by verifying that the batteries, cell plates, and battery racks show no visual indication of physical damage or abnormal deterioration and the battery-to-battery and terminal connections are clean, tight, free of corrosion and coated with anticorrosion material.

4.4 SPRAY AND/OR SPRINKLER SYSTEMS

4.4.1 Operability Requirements

The Operability requirements for spray and/or sprinkler systems are specified in Attachment 3.

4.4.2 Action if Operability Requirements are Not Met

The action if Operability requirements are not met is specified in Attachment 3.

4.4.3 Surveillance Requirements

- 4.4.3.1 Each of the Spray and/or Sprinkler Systems listed in Attachment 3 SHALL be demonstrated Operable:

- 4.4.3.1.1 At least once per 31 days by verifying that each valve, except for those located inside Containment, (manual, power-operated, or automatic) in the flow path is in its correct position.
- 4.4.3.1.2 At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- 4.4.3.1.3 At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system.
- 4.4.3.1.4 At least once per 18 months by verifying that the automatic valves in the flow path actuate to their correct positions on a Simulated Fire Test Signal.
- 4.4.3.1.5 At least once per 18 months by cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
- 4.4.3.1.6 At least once per 18 months by a visual inspection of the dry pipe spray and sprinkler headers to verify their integrity.
(COMN 41753)
- 4.4.3.1.7 At least once per 18 months by a visual inspection of each nozzle's spray area to verify the spray pattern is not obstructed.
(COMN 41753)
- 4.4.3.1.8 At least once per 3 years by performing an air or water flow test through each open head spray/sprinkler header and verifying each open head spray/sprinkler nozzle is unobstructed. (COMN 41753)

4.5 HALON SYSTEMS

4.5.1 Operability Requirements

The Operability requirements for Halon systems are specified in Attachment 4.

4.5.2 Action if Operability Requirements are Not Met

The action if Operability requirements are not met is specified in Attachment 4.

4.5.3 Surveillance Requirements (COMN 41754)

- 4.5.3.1 Each of the Halon Systems listed in Attachment 4 SHALL be demonstrated Operable:

- 4.5.3.1.1 At least once per 6 months by verifying Halon storage tank weight (or level) to be at least 95% of full charge weight and pressure to be at least 90% of full charge pressure.
- 4.5.3.1.2 At least once per 18 months by verifying the system, including associated ventilation system fire dampers and fire door release mechanisms, actuates manually and automatically, upon receipt of a Simulated Actuation Signal.
- 4.6 FIRE HOSE STATIONS
- 4.6.1 Operability Requirements

The Operability requirements for fire hose stations are specified in Attachment 5.
- 4.6.2 Action if Operability Requirements are Not Met

The action if Operability requirements are not met is specified in Attachment 5.
- 4.6.3 Surveillance Requirements (COMN 41755)
- 4.6.3.1 Each of the fire hose stations given in Attachment 5 SHALL be demonstrated Operable:
 - 4.6.3.1.1 At least once per 31 days by a visual inspection of the fire hose stations accessible during plant operations to assure all required equipment is at the station.
 - 4.6.3.1.2 At least once per 18 months by visual inspection of the stations not accessible during plant operations to assure all required equipment is at the station.
 - 4.6.3.1.3 At least once per 18 months by removing the hose for inspection and reracking.
 - 4.6.3.1.4 At least once per 18 months by inspecting all gaskets and replacing any degraded gaskets in the couplings.
 - 4.6.3.1.5 At least once per 3 years by partially opening each hose station valve to verify valve Operability and no flow blockage.
 - 4.6.3.1.6 By conducting a hose hydrostatic test 5 years from installation and three years thereafter at a pressure of 250 psig or at the Service Test pressure stenciled on the hose.

4.7 FIRE BARRIERS

4.7.1 Operability Requirements

The Operability requirements for fire barriers are specified in Attachment 6.

4.7.2 Action if Operability Requirements are Not Met

The action if Operability requirements are not met is specified in Attachment 6.

4.7.3 Surveillance Requirements (COMN 41756, 42424)

4.7.3.1 At least once per 18 months the required fire barriers and fire rated assemblies SHALL be verified Operable by performing a visual inspection of the exposed surfaces of each fire barrier and fire rated assembly.

4.7.3.2 At least once per 18 months the required fire dampers SHALL be verified operable by performing a visual inspection and drop testing of at least 10% of each accessible fire damper type (horizontal or vertical).

4.7.3.2.1 One vertical damper closure failure per 10% sample and one horizontal damper closure failure per 20% sample (0 failures if <20% sample) are acceptable.

4.7.3.2.2 If failure rates exceed the acceptable limits, an additional equivalent sample of the applicable damper type SHALL be drop tested. This process SHALL continue until acceptable test results are obtained for the sample.

4.7.3.2.3 Each accessible fire damper SHALL be tested a minimum of once every 15 years.

4.7.3.2.4 Approximately 10 of the 254 vertical power block dampers (<4%) are inaccessible for drop testing performance due to adjacent duct or damper obstructions. Drop testing may be waived for these dampers, if approved by the Fire Protection Engineer, unless fire damper drop test results of the accessible dampers indicate an adverse failure trend.

4.7.3.2.5 If the drop test is waived, a visual inspection of each inaccessible damper SHALL be performed during the normally scheduled drop test date for that damper.

- 4.7.3.3 At least once per 18 months the required fire rated assemblies and penetration sealing devices SHALL be verified Operable by performing a visual inspection of at least 10% of each type (electrical and mechanical) of sealed penetration.
- 4.7.3.3.1 If apparent changes in appearance or abnormal degradations are found, a visual inspection of an additional 10% of each type of sealed penetration SHALL be made.
- 4.7.3.3.2 This inspection process SHALL continue until a 10% sample with no apparent changes in appearance or abnormal degradation is found.
- 4.7.3.3.3 Samples SHALL be selected such that each penetration seal is inspected every 15 years.
- 4.7.3.4 Each of the required fire door closing mechanisms and latches SHALL be verified Operable by inspecting the automatic hold-open, release and closing mechanism and latches at least once per 6 months.
- 4.7.3.5 Each of the required fire doors SHALL be verified Operable by verifying the Operability of the Fire Door Supervision System for each electrically supervised fire door by performing a Trip Actuating Device Operational Test at least once per 31 days.
- 4.7.3.6 Each of the required fire doors SHALL be verified Operable by verifying that each locked closed fire door without electrical supervision is closed at least once per 7 days.
- 4.7.3.7 Each of the required fire doors SHALL be verified Operable by verifying that doors with automatic hold-open and release mechanisms are free of obstructions at least once per 24 hours and performing a functional test at least once per 18 months.
- 4.7.3.8 Each of the required fire doors SHALL be verified Operable by verifying that each unlocked fire door without electrical supervision is closed at least once per 24 hours.

4.8 DETECTION AND SUPPRESSION SYSTEMS; NON-SAFETY
RELATED AREAS

- 4.8.1 Operability requirements and Action if operability requirements are not met are specified in Attachment 7. See step 4.1.4 for the bases of this information. There are no surveillance requirements for detection and suppression systems in non-safety related areas.

5 REFERENCES

- 5.1 Callaway Plant Standard Plant FSAR
- 5.2 Callaway Plant Technical Specifications
- 5.3 **APA-ZZ-00340** , Surveillance Program Administration
- 5.4 The following **COMN(S)**: 22, 567, 571, 581, 42367, 42183, 41094, 41226, 41285
- 5.5 Amendment 30 to the Callaway Plant Technical Specifications.
- 5.6 **CSP-ZZ-07350** , Diesel Fuel Oil Testing Program.
- 5.7 **EDP-ZZ-01128** , Maintenance Rule and EPIX Programs

6 RECORDS

6.1 QA RECORDS

None

6.2 COMMERCIAL RECORDS

None

Fire Detection Instrumentation In Safety-Related Areas

OPERABILITY REQUIREMENTS: As a minimum, all fire detection instrumentation associated with fire detection zones listed in the table below SHALL be Operable whenever equipment protected by the instrumentation is required to be Operable.

ACTION IF OPERABILITY REQUIREMENTS ARE NOT MET:

Detection Instrumentation Outside Containment: With any fire detection instrument associated with any zone listed below not Operable, within 1 hour, establish an hourly fire watch in the area with inoperable detection, unless the “Description of Compensatory Actions” column specifies that the particular detector does not require fire watch. Compensatory actions required when an entire zone is inoperable are specified in the “Description of Compensatory Actions” column.

Detection Instrumentation Inside Containment: With any fire detection instrument associated with any zone listed below not Operable, inspect the zone with the inoperable instrument at least once per eight hours, or monitor Containment air temperature at least once per hour at the locations specified in **Improved T/S SR 3.6.5.1**

Fire Zone	KC008 Win.	Description	Description of Compensatory Actions	Instruments Present			Local Panel	Detector Drawings
				Smoke	Heat	Flame		
001	183	ESW/ UHS Pumphouse B & UHS Cooling Tower Elec. Rm B Early Warning Detectors	Establish an hourly fire watch in rooms U105 & U304.	4	0	0	N/A	E-UF0221
002	191	ESW/ UHS Pumphouse A & UHS Cooling Tower Elec. Rm A Early Warning Detectors	Establish an hourly fire watch in room U104 & U301.	4	0	0	N/A	E-UF0221
100	089	AB 1974' Cable Tray Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions	20	0	0	KC258	E-2F1101
101	091	AB Misc. Areas 1974' Early Warning Detectors	Establish an hourly fire watch in rooms 1102, 1107 through 1117, 1120, 1121, 1122 & 1126.	28	0	2	N/A	E-2F1101
102*	092	AB Elevator Lobby Early Warning Detectors	None. Detectors in this zone do not require fire watch.	5	0	0	N/A	E-2F1101 thru E-2F1501
103	090	AB 2000' Cable Tray Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions.	21	0	0	K257	E-2F1301
104***	095	AB 2026' Cable Tray Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions.	16	0	0	KC256	E-2F1401
105***	093	AB MG Set/Load Center Room Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	9	0	0	KC225	E-2F1401
106***	097	AB South Electrical Penetration Room Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions	4	0	0	KC226	E-2F1401
107***	099	AB North Electrical Penetration Room Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	8	0	0	KC224	E-2F1401
108*	101	AB 2047' South General Area Early Warning Detectors	Establish an hourly fire watch in rooms 1504 & 1507. The detector installed in the S. AB stairwell does not require a fire watch.	22	0	0	N/A	E-2F1501
109	102	AB 2047' North General Area Early Warning Detectors	Establish an hourly fire watch in rooms 1513, 1506, & 1127 at 2047' elev.	22	0	0	N/A	E-2F1501
110	105	AB 2047' Control Room A/C & Filter Units Early Warning Detectors	Establish an hourly fire watch in rooms 1501 & 1512.	20	0	0	N/A	E-2F1501
111	106	AB Turbine Driven Auxiliary Feed Pump Early Warning Detectors	Establish an hourly watch in room 1331.	0	2	0	N/A	E-2F1301
112***	094	AB MG Set/Load Center Room Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	9	0	0	KC225	E-2F1401

* Some detectors in zone do not require fire watch when inoperable.

** Number indicates feet of line-type detector

*** Maintenance Rule applicable, Consult Attachment 8

Fire Detection Instrumentation In Safety-Related Areas

Fire Zone	KC008 Win.	Description	Description of Compensatory Actions	Instruments Present			Local Panel	Detector Drawings
				Smoke	Heat	Flame		
113 ***	098	AB South Electrical Penetration Room Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	4	0	0	KC226	E-2F1401
114 ***	100	AB North Electrical Penetration Room Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	8	0	0	KC224	E-2F1401
115	107	AB Area 5 Main Steam Isolation Valve Room Early Warning Detectors	Establish an hourly fire watch in rooms 1508 & 1509.	0	0	2	N/A	E-2F1501
117*	109	AB Aux Building 2000' Area Early Warning Detectors	Establish an hourly fire watch in rms 1128, 1301, 1311, 1314, 1322, 1323, 1335, 1336, & 12031C(chase room behind door 12031). Detectors in rooms 1307 do not require a fire watch.	21	0	0	N/A	E-2F1101 thru E-2F1301
118	110	AB 2026' General Floor Area & Aux Shut Down Panel Early Warning Detectors	Establish an hourly fire watch in rooms 1401, 1405, 1406, 1408 & 1413.	23	0	0	N/A	E-2F1401
119	157	AB Aux. Building to Control Building Supply Air Duct Early Warning Detectors	Hourly Watch duct outlet above HPAC desk for presence of smoke.	1	0	0	N/A	E-2F1501
120	123	AB AFW Pump Rooms	Establish an hourly firewatch in rooms 1206, 1207, 1325, 1326, 1331. Detectors in Room 1305 do not require a watch.	9	2	0	N/A	E-2F1301
201	137	RB Sep. Group 1 2000' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 514'	0	N/A	E-2F2311 & E-2F2321
202	138	RB Sep. Group 4 2000' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 438'	0	N/A	E-2F2311 & E-2F2321
203	139	RB Sep. Group 5 & 6 2026' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 325'	0	N/A	E-2F2411 & E-2F2421
204	140	RB Sep. Group 4 2026' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 215'	0	N/A	E-2F2411 & E-2F2421
205	141	RB Sep. Group 5 & 6 2026' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 892'	0	N/A	E-2F2411 & E-2F2421
206	142	RB Sep. Group 5 & 6 2026' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 610'	0	N/A	E-2F2411 & E-2F2421
215	147	RB N. Cable Pen. Area Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 75'	0	N/A	E-2F2411 & E-2F2421
216	148	RB S. Cable Pen. Area Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 380'	0	N/A	E-2F2411 & E-2F2421
217	149	RB Sep. Group 1 2026' -2047' Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 235'	0	N/A	E-2F2411,21 & E-2F2511, 21
218	150	RB West Reactor Vessel Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 100'	0	N/A	E-2F2411 & E-2F2421
219	111	RB Containment Cooler Duct Early Warning Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	4	0	0	N/A	E-2F2511 & E-2F2521
220	151	RB East Reactor Vessel Early Warning Protecto-Wire Detectors	Containment detection zone. See compensatory actions at the top of this attachment.	0	** 70'	0	N/A	E-2F2421

* Some detectors in zone do not require fire watch when inoperable.

** Number indicates feet of line-type detector

*** Maintenance Rule applicable, Consult Attachment 8

Fire Detection Instrumentation In Safety-Related Areas

Fire Zone	KC008 Win.	Description	Description of Compensatory Actions	Instruments Present			Local Panel	Detector Drawings
				Smoke	Heat	Flame		
300*	177	CB 1984' General Floor Area and Cable Chases Early Warning Detectors	Establish an hourly fire watch in rooms 3229 & 3230. Detectors below ceiling on 1984' elev. (except cable chases) do not require fire watch.	22	0	0	N/A	E-2F3101
301	178	CB 1984' Above Ceiling and N & S Chases 2000' Early Warning Detectors	Establish an hourly fire watch in rooms 3205, 3208, 3213, 3217, 3218, 3221, 3222, 3224, 3232, 3305 & 3306. Pay particular attention to ceiling of 1984' elev. rooms.	14	0	0	N/A	E-2F3201 & E-2F3301
303	179	CB Ca. Chase, Batt. & Elec Equip Rm. Early Warning Detectors	Establish an hourly fire watch in rooms 3405, 3407, 3411, 3413, 3415, 3416, 3418, 3419, 3504, 3505, & chase rooms 34102C, 34142C, 35011C, 35012C.	23	0	0	N/A	E-2F3301 & E-2F3501
304	181	CB Non-Vital Swgr. & Xfmr. Rm. #1 Early Warning Detectors	Establish an hourly fire watch in room 3403.	1	0	0	H/A	E-2F3301
305	182	CB Non-Vital Swgr. & Xfmr. Rm. #1 Early Warning Detectors	Establish an hourly fire watch in room 3403.	1	0	0	N/A	E-2F3301
306	199	CB Lower Cable Spreading Room Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions	13	0	0	KC262	E-2F3501
307 ***	205	CB Upper Cable Spreading Rm. Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions.	18	0	0	KC261	E-2F3601
308	180	CB 2047', 2047' Cable Chases, 2073' Cable Chases Early Warning Detectors	Establish an hourly fire watch in rooms 3602, 3605, 3606, 3608, 3617, 3618, 3804 & chase rooms 38012C 36053C. Rooms 3601, 3603, and 3609 are continuously manned and do not require fire watch.	28	1	0	N/A	E-2F3501 & E-2F3601
309 ***	185	CB Control Room Cable Trenches Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	7	0	0	KC227	E-2F3501
314 ***	187	CB ESF Switchgear Room #1 Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	7	0	0	KC222	E-2F3301
315 ***	188	CB ESF Switchgear Room #1 Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	7	0	0	KC222	E-2F3301
316 ***	189	CB ESF Switchgear Room #2 Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	5	0	0	KC222	E-2F3301
317 ***	190	CB ESF Switchgear Room #2 Halon Actuation Detections	Declare halon system inoperable. See attachment 4 for compensatory actions.	5	0	0	KC222	E-2F3301
318	193	CB Switchboard Rm. #3 Early Warning Detectors	Establish an hourly fire watch in room 3414	2	0	0	N/A	E-2F3301
319 ***	186	CB Control Room Cable Trenches Halon Actuation Detectors	Declare halon system inoperable. See attachment 4 for compensatory actions.	7	0	0	KC227	E-2F3501
320	194	CB Switchboard Rm. #3 Early Warning Detectors	Establish an hourly fire watch in room 3414.	2	0	0	N/A	E-2F3301
321	195	CB Switchboard Rm. #4 Early Warning Detectors	Establish an hourly fire watch in room 3404	3	0	0	N/A	E-2F3301
322	196	CB Switchboard Rm. #4 Early Warning Detectors	Establish an hourly fire watch in room 3404	2	0	0	N/A	E-2F3301
323	197	CB Non-Vital Swgr. & Xfmr. Rm. #2 Early Warning Detectors	Establish an hourly fire watch in room 3409	1	0	0	N/A	E-2F3301
324	201	CB Switchboard Rm. #2 Early Warning Detectors	Establish an hourly fire watch in room 3410	2	0	0	N/A	E-2F3301

* Some detectors in zone do not require fire watch when inoperable.

** Number indicates feet of line-type detector

*** Maintenance Rule applicable, Consult Attachment 8

Fire Detection Instrumentation In Safety-Related Areas

Fire Zone	KC008 Win.	Description	Description of Compensatory Actions	Instruments Present			Local Panel	Detector Drawings
				Smoke	Heat	Flame		
325	203	CB Switchboard Rm. #1 Early Warning Detectors	Establish an hourly fire watch in room 3408	6	0	0	N/A	E-2F3301
326	204	CB Switchboard Rm. #1 Early Warning Detectors	Establish an hourly fire watch in room 3408	2	0	0	N/A	E-2F3301
327	198	CB Non-Vital Swgr. & Xfmr. Rm. #2 Early Warning Detectors	Establish an hourly fire watch in room 3409	1	0	0	N/A	E-2F3301
328	202	CB Switchboard Rm. #2 Early Warning Detectors	Establish an hourly fire watch in room 3410	2	0	0	N/A	E-2F3301
329	207	CB Control Room Cabinet Early Warning Detectors	Establish an hourly fire watch in room 3605. Look for smoke rising from the top of electrical cabinets. Room 3601 is continuously manned and does not require firewatch.	20	0	0	N/A	None
330	209	CB 1974' elevation	Establish and hourly fire watch in Rooms 3101, 3105, & 3106	13	0	0	N/A	E-2F3101
500	113	DG East Diesel Generator Room Early Warning Detectors	Establish an hourly fire watch in room 5203.	0	0	4	N/A	E-2F3301
501	206	DG West Diesel Generator Room Early Warning Detectors	Establish an hourly fire watch in room 5201	0	0	4	N/A	E-2F3301
502	222	DG West Diesel Generator Rm. Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions.	0	8	0	KC282	E-2F3301
503	169	DG East Diesel Generator Room Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions.	0	8	0	KC283	E-2F3301
600	171	FB Railroad Bay Sprinkler Actuation Detectors	Declare sprinkler system inoperable. See attachment 3 for compensatory actions.	0	8	0	KC284	E-2F6101
601	114	FB Misc. Rooms Early Warning Detectors	Establish an hourly fire watch in rooms 6104, 6105, 6202, 6203, 6303 & 6304	22	0	0	N/A	E-2F6101
602	115	FB General Floor Area Early Warning Detectors	Establish an hourly fire watch in room 6301.	0	0	2	N/A	E-2F6101

* Some detectors in zone do not require fire watch when inoperable.

** Number indicates feet of line-type detector

*** Maintenance Rule applicable, Consult Attachment 8

FIRE SUPPRESSION WATER SYSTEM

Operability Requirements

The Fire Suppression Water System shall be Operable at all times with: *

- a) At least two fire suppression pumps, each with a capacity of 1500 gpm, with their discharge aligned to the fire suppression header;
- b) Two separate water supply tanks, each with a minimum level of 31 feet (260,000 gallons); and
- c) An Operable flow path capable of taking suction from both fire water storage tanks and transferring the water through distribution piping with Operable sectionalizing control or isolation valves to the yard hydrant curb valves, the last valve ahead of the water flow alarm device on each sprinkler or hose standpipe, and the last valve ahead of the deluge valve on each Deluge or Spray System required to be Operable per Attachments 3 and 5 to this procedure.

Action if Operability Requirements are Not Met

- a) With one of the two required pumps and/or one water supply not Operable restore it to Operable status within 7 days or provide an alternate backup pump or supply.
- b) With no Operable pumps, or no Operable water supply, or no Operable flow path, establish a backup Fire Suppression Water System within 24 hours.

If a backup Fire Suppression Water System cannot be established within 24 hours, within one hour action shall be initiated to place the plant in at least Hot Standby within the next 6 hours, at least Hot Shutdown within the following 6 hours, and at least Cold Shutdown within the subsequent 24 hours.

* Any use of the Fire Suppression Water System for purposes other than fire suppression, Fire Training/Drills, or emergency use (i.e. fill of Steam generators, CST, Spent Fuel Pool Emergency fill) requires prior evaluation by Fire Protection Engineering. This approval WILL be documented on an FPIP in accordance with APA-ZZ-00701.

Sprinkler/Spray Systems Protecting Safety-Related Areas

OPERABILITY REQUIREMENTS: The suppression systems listed below shall be Operable whenever equipment protected by the system is required to be operable.

ACTION IF OPERABILITY REQUIREMENTS ARE NOT MET: With one or more of the suppression systems listed below not Operable, within one hour, perform compensatory actions as stated in the “Description of Compensatory Actions” column.

Area Protected	Description of Compensatory Actions	System Type	Actuating Detection Zone/Win.	Pressure Switch Zone/Win.	Act. Comp. / Iso. Valve	Local Panel	Sprinkler Drawings
AB Cable Trays 1974 ' Elev.	Establish an continuous* fire watch in rooms 1101, 1102, 1122, & 1130.	Pre-Action	100/089	164/131	KCXV0164 KCV0443	KC258	M-650A-00012 M-22KC05
AB Cable Trays 2000 ' Elev.	Establish a continuous* watch in rooms 1301, 1312, 1314, 1315, 1316, 1320 & 1321.	Pre-Action	103/090	165/132	KCXV0165 KCV0444	KC257	M-650-00014 M-650A-00174 M-22KC05
AB Turbine Driven Aux. Feed Pump	Establish an hourly fire watch in room 1331.	Spray (Manual Actuation)	None	161/158	KCV0730 N/A	None	M-650-00080 M-22KC02
AB Cable Trays 2026 ' Elev. ***	Establish a continuous* watch in rooms 1402 & 1408.	Pre-Action	104/095	166/133	KCXV0166 KCV0445	KC256	M-650-00022 M-22KC05
AB North Cable Chase	Establish an hourly fire watch in room 1335 and the northwest corner of room 1410	Wet Pipe	None	162/129	KCV0847 KCV0438	KC260	M-650A-00006 M-22KC05
AB South Cable Chase	Establish an hourly fire watch in room 1336, chase room 12031C, and the southwest corner of room 1409.	Wet Pipe	None	163/130	KCV0846 KCV0437	KC259	M-650A-00006 M-22KC05
AB AFW Pump Pipe Chase ***	Establish an hourly fire watch in rooms 1206 & 1207.	Wet Pipe	None	170/086	KCV0484	KC311	M-22KC02
RB North Cable Penetration Area	Establish hourly firewatch or monitor containment air temperature at least once per hour. See below for requirements in Containment (1)	Pre-Action	None	261/159	KCXV0261 KCV0435	KC322	M-650A-00016 M-22KC02
RB South Cable Penetration Area	Establish hourly firewatch or monitor containment air temperature at least once per hour. See below for requirements in Containment (1)	Pre-Action	None	262/161	KCXV0262 KCV0434	KC323	M-650A-00017 M-22KC02
CB 1974 ' Elevation Pipe Space	Establish an hourly fire watch in room 3101.	Wet Pipe	None	376/236	KCV0677 KCV0676	KC325	M-650-00165 M-22KC05
CB Access Control Below Ceiling	None. This system does not require fire watch.	Wet Pipe	None	361/217	KCV0844 KCV0391	KC304	M-650-00056 M-22KC02
CB Access Control Above Ceiling ***	Establish an hourly fire watch in rooms 3204, 3205, 3207, 3208, 3209, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3222, 3224, 3231 & 3232	Wet Pipe	None	363/219	KCV0849 KCV0439	KC306	M-650A-00026 M-22KC05
CB Lower Cable Spreading Room	Establish an hourly fire watch in room 3501.	Pre-Action	306/199	364/220	KCXV0364 KCV0441	KC262	M-650A-00002 M-22KC05
CB Upper Cable Spreading Room ***	Establish an hourly fire watch in room 3801.	Pre-Action	307/205	365/221	KCXV0365 KCV0442	KC261	M-650A-00001 M-22KC05
CB Cable Chases ***	Establish an hourly fire watch in all Control Bldg chases. See below for rooms included (2).	Wet Pipe	None	362/218	KCV0848 KCV0440	KC305	M-650A-00010 M-22KC05
DB Diesel Generator Room B (West)	Establish an hourly fire watch in room 5201.	Pre-Action	502/222	562/223	KCXV0562 VKC1002B	KC282	M-650-00174, 175 M-650-00029 M-22KC02
DB Diesel Generator Room A (East)	Establish an hourly fire watch in room 5203.	Pre-Action	503/169	561/170	KCXV0561 VKC1002A	KC283	M-650-00174, 175 M-650-00029 M-22KC02
FB Railroad Bay	Establish an hourly fire watch in room 6102. (Note: This fire watch requirement is due to an agreement with ANI. It is not a regulatory requirement.	Pre-Action	600/171	661/172	KCXV0661 KCV0076	KC284	M-650-00075 M-22KC03

(1) Containment sprinkler systems are still considered operable even when manual isolation valves in the flowpath are closed provided an operator who is in contact with the Control Room is located at the manual valves to open the valve if sprinkler system in Containment is required.

(2) Rooms watched: 3105, 3106, 3229, 3230, 3305, 3306 3418, 3419, 3504, 3505, 3617, 3618, & 3804. Also included: Chase rooms 33024C, 33013C, 34102C, 34142C, 35011C, 35012C, 36053C, 1 & 38012C.

* Continuous watch required because areas contain redundant systems or components which could be damaged. ***Maintenance Rule Applicable, Consult Attachment 8.

**Halon Systems
Protecting Safety-Related Areas**

OPERABILITY REQUIREMENTS: The suppression systems listed below shall be Operable whenever equipment protected by the system is required to be operable.

ACTION IF OPERABILITY REQUIREMENTS ARE NOT MET: With one or more of the suppression systems listed below not Operable, within one hour perform compensatory actions as stated in the "Description of Compensatory Actions" column.

Area Protected		Description of Compensatory Actions	Local Panel	Detection Zones/ Windows	Pressure Switch Zone/ Window	Actuating Solenoid Valve	Selecting Solenoid Valve
AB	Load Center/M.G. Sets Room ***	Establish a continuous watch in room 1403.	KC225	105/093 112/094	167/153	KCXY0167	N/A
AB	South Electrical Penetration Room ***	Establish an hourly fire watch in room 1409.	KC226	106/097 113/098	168/154	KCXY0168	N/A
AB	North Electrical Penetration Room ***	Establish an hourly fire watch in room 1410.	KC224	107/099 114/100	169/155	KCXY0169	N/A
CB	ESF Switchgear Room 1 ***	Establish a continuous watch in room 3301.	KC222	314/187 315/188	366/225	KCXY0222	KCXY0366
CB	ESF Switchgear Room 2 ***	Establish a continuous watch in room 3302.	KC222	316/189 317/190	367/226	KCXY0222	KCXY0367
CB	Control Room Cable Trenches & Chases ***	Because the Control Room is continuously manned, notification is the only required compensatory action.	KC227	309/185 319/186	375/234	KCXY0375	N/A

*** Maintenance Rule Applicable, consult Attachment 8

Fire Hose Stations Requiring Backup Hose if Impaired

OPERABILITY REQUIREMENTS: The fire hose stations listed below shall be Operable whenever equipment in the areas protected by the fire hose stations is required to be Operable.

ACTIONS IF OPERABILITY REQUIREMENTS ARE NOT MET: With one or more fire hose stations listed below not Operable, provide equivalent capacity backup hose protection to the unprotected area from the spare hose connection on an adjacent Operable standpipe or, if there is no spare hose connection on an adjacent Operable standpipe, from a gated wye installed on an adjacent Operable hose station.

Where it can be demonstrated that the physical routing of the backup hose would result in a recognizable hazard to operating technicians, plant equipment, or the hose itself, or would require the blocking open of a fire door, the hose shall be stored at the point of origin and properly identified of its intended use.

Fire Hose	*	Building	Elev.	Rm.
KCHR0001	S	Control	1984	3221
KCHR0002	S	Control	1974	3101
KCHR0004	S	Control	2000	3301
KCHR0005	P	Control	2016	3401
KCHR0006	S	Control	2032	3501
KCHR0007	P	Control	2047	3604
KCHR0008	S	Control	2073	3801
KCHR0014	S	Control	1974	3101
KCHR0015	S	Control	1984	3204
KCHR0016	S	Control	2000	3302
KCHR0017	S	Control	2000	3301
KCHR0018	P	Control	2016	3401
KCHR0019	P	Control	2016	3401
KCHR0020	S	Control	2032	3501
KCHR0021	P	Control	2047	3616
KCHR0022	S	Control	2073	3801
KCHR0023	S	Auxiliary	1974	1101
KCHR0024	P	Auxiliary	1988	1201
KCHR0025	S	Auxiliary	1974	1120
KCHR0026	S	Auxiliary	2026	1408
KCHR0027	P	Auxiliary	2047	1502
KCHR0028	S	Auxiliary	2064	1119
KCHR0029	S	Auxiliary	2000	1321
KCHR0030	P	Auxiliary	2000	1314
KCHR0031	P	Auxiliary	1974	1120
KCHR0032	S	Auxiliary	2026	1408
KCHR0033	P	Auxiliary	2047	1504
KCHR0034	P	Auxiliary	2026	1401
KCHR0035	S	Auxiliary	2000	1301
KCHR0037	S	Auxiliary	2026	1403
KCHR0038	P	Auxiliary	2047	1501
KCHR0039	P	Auxiliary	2000	1301
KCHR0040	P	Auxiliary	1974	1101
KCHR0041	S	Auxiliary	2000	1301
KCHR0042	P	Auxiliary	1974	1101

Fire Hose	*	Building	Elev.	Rm.
KCHR0043	P	Auxiliary	2047	1513
KCHR0044	P	Auxiliary	2026	1408
KCHR0045	P	Auxiliary	2047	1506
KCHR0046	S	Auxiliary	2000	1320
KCHR0047	P	Auxiliary	1974	1122
KCHR0048	P	Auxiliary	2000	1320
KCHR0049	P	Auxiliary	2026	1408
KCHR0050	P	Auxiliary	2047	1506
KCHR0051	P	Auxiliary	1974	1122
KCHR0052	P	Fuel	2026	6202
KCHR0053	S	Fuel	2047	6301
KCHR0054	S	Fuel	2000	6102
KCHR0055	S	Fuel	2047	6301
KCHR0056	S	Fuel	2047	6302
KCHR0057	P	Fuel	2000	6104
KCHR0111	P	Auxiliary	2000	1329
KCHR0120	#	Reactor	2000	2201
KCHR0121	#	Reactor	2026	N/A
KCHR0122	#	Reactor	2047	N/A
KCHR0123	#	Reactor	2068	N/A
KCHR0124	#	Reactor	2000	2201
KCHR0125	#	Reactor	2026	N/A
KCHR0126	#	Reactor	2047	N/A
KCHR0127	#	Reactor	2068	N/A
KCHR0128	#	Reactor	2047	N/A
KCHR0129	#	Reactor	2000	2201
KCHR0130	#	Reactor	2026	N/A
KCHR0131	#	Reactor	2000	2201
KCHR0132	S#	Reactor	2026	N/A
KCHR0133	P	Fuel	2026	6201
KCHR0140	P	ESW A	2000	U104
KCHR0141	P	ESW B	2000	U105
KCHR0142	S	Fuel	2000	6102
KCHR0143	P	Fuel	2000	6105

* “P” Hose station installed as primary means of suppression in area. Installation of backup hose must be completed within one hour of an unplanned impairment.

“S” Hose station is secondary means of suppression to Spray, Sprinkler, or Halon system. Installation of backup hose must be completed within 24 hours of an unplanned impairment.

“#” Fire hose for station is stored external to Reactor Building. Containment fire hose stations are still considered operable even when manual isolation valves in the flowpath are closed, provided an operator who is in contact with the Control Room is located at the manual valve to open the valve if fire hose stations in Containment are required.

FIRE BARRIERS**OPERABILITY REQUIREMENTS**

- A. All barriers* that satisfy any of the two conditions listed below are considered "Fire Barriers" and shall be Operable at all times.
 - a. Barrier separates one Fire Area** from another Safety-Related Fire Area.
 - b. Barrier separates opposite trains of redundant systems important to safe shutdown.
- B. All fire rated assemblies*** that allow the penetration of Required Fire Barriers shall be considered part of the Required Fire Barrier and shall be Operable at all times.

* walls, floors, ceilings, cable tray enclosures, conduit wrap, and other fire barriers

** See procedure step 2.2 for a definition of a Fire Area.

*** fire doors (including elevator and dumbwaiter doors), fire dampers, cable penetration seals (internal and external), piping penetration seals, ventilation duct penetration seals, etc. **(SOS 98-3706)**

ACTION IF OPERABILITY REQUIREMENTS ARE NOT MET

With one or more of the Fire Barriers inoperable, perform the following within one hour:

- 1. If there are **NO operable detectors** on either side of the affected barrier, establish a **continuous fire watch** on at least one side of the affected barrier.
- 2. If there are **Operable detectors** on at least one side of the affected barrier, establish an **hourly fire watch** patrol on at least one side of the affected barrier.

EXCEPTIONS:

- 1. Fire Doors DSK61051 and DSK61041 may be propped open without a firewatch established. **(SOS 97-1130)**
- 2. **Fire Wrap Barriers in Containment:**
 - a. With Operable detection, monitor the containment air temperature in accordance with Technical Specifications 4.6.1.5 (once per 24 hours).
 - b. With Inoperable detection, monitor the containment air temperature at least once per hour at the locations specified in Technical Specifications 4.6.1.5.
- 3. **Fire Wrap Barriers in rooms 3401:** Establish an hourly fire watch patrol in the room.

INSTRUCTIONS FOR USE OF THE BARRIER MATRIX

The following matrix may be used to determine if a wall, floor, or ceiling, or any device penetrating a wall, floor, or ceiling is a Fire Barrier. Additionally, the matrix lists detection and suppression present in all safety related areas and in all areas adjacent to safety related areas. This information may be used in conjunction with APA-ZZ-00701, CONTROL OF IMPAIRMENTS TO FIRE PROTECTION SYSTEMS AND COMPONENTS, to determine compensatory actions for any barrier impairment.

FIRE PROTECTION EQUIPMENT SAFETY RELATED AREAS

General Information			Det.	Early Warning Detection Information		Automatic Suppression Information			
* Room	Fire Area	Area Description	Pres. ?	Detect Zones	KC008 Window	Type	Detect. Zone(s)	KC008 Window(s)	Actuated Component
1101	A-1	Aux. Bldg. 1974 ' Gen Fir. #1	Y	N/A	N/A	Pre-Action	100	089	KCXV0164
1102	A-1	Chiller and Surge Tanks Area	Y	101	091	Pre-Action	100	089	KCXV0164
1103	A-1	Letdown Chiller Heat Exch. Rm.	N	N/A	N/A	None	N/A	NA	N/A
1104	A-1	Letdown Reheat Heat Exch. Rm.	N	N/A	N/A	None	N/A	NA	N/A
1105	A-1	Valve Compartment	N	N/A	N/A	None	N/A	NA	N/A
1106	A-1	Moderating Heat Exch. Rm.	N	N/A	N/A	None	N/A	NA	N/A
1107	A-4	Centrifugal Charging Pump Rm. B	Y	101	091	None	N/A	N/A	N/A
1108	A-4	Safety Injection Pump Rm. B	Y	101	091	None	N/A	N/A	N/A
1109	A-4	Residual Heat Removal Pump Rm. B	Y	101	091	None	N/A	N/A	N/A
1110	A-4	CTMT. Spray Pump Rm B	Y	101	091	None	N/A	N/A	N/A
1111	A-2	Residual Heat Removal Pump Rm. A	Y	101	091	None	N/A	N/A	N/A
1112	A-2	CTMT. Spray Pump Rm. A	Y	101	091	None	N/A	N/A	N/A
1113	A-2	Safety Injection Pump Rm. A	Y	101	091	None	N/A	N/A	N/A
1114	A-2	Centrifugal Charging Pump Rm. A	Y	101	091	None	N/A	N/A	N/A
1115	A-1	Normal Charging Pump Rm.	Y	101	091	None	N/A	N/A	N/A
1116	A-3	Boric Acid Tank Rm. B	Y	101	091	None	N/A	N/A	N/A
1117	A-3	Boric Acid Tank Rm. A	Y	101	091	None	N/A	N/A	N/A
1119	A-5	Stair A-1 & A-1A	Y	108	101	None	N/A	N/A	N/A
1120	A-1	General Floor Area #2	Y	101/102	091/092	None	N/A	N/A	N/A
1121	A-1	Access Pit	Y	101	091	None	N/A	N/A	N/A
1122	A-1	General Floor Area #3	Y	101	091	Pre-Action	100	089	KCXV0164
1123	A-1	Passage	N	N/A	N/A	None	N/A	N/A	N/A
1124	A-1	Valve Compartment	N	N/A	N/A	None	N/A	N/A	N/A
1125	A-1	Letdown Heat Exch Rm.	N	N/A	N/A	None	N/A	N/A	N/A
1126	A-7	Boron Injection Tank & Pump Rm.	Y	101	091	None	N/A	N/A	N/A
1127	A-6	Stair A-2	Y	109	102	None	N/A	N/A	N/A
1128	A-1	Hot Tool Issue Area	Y	117	109	None	N/A	N/A	N/A
1129	A-1	Hot Tool Crib	N	N/A	N/A	None	N/A	N/A	N/A
1130	A-1	North Corridor	Y	N/A	N/A	Pre-Action	100	089	KCXV0164
1201	A-1	Vestibule	Y	102	092	None	N/A	N/A	N/A
1202	A-1	South Access Area	N	N/A	N/A	None	N/A	N/A	N/A
1203	A-1	Pipe Space	N	N/A	N/A	None	N/A	N/A	N/A
12031	A-1	S. Electrical Chase 1988 '	Y	117	109	Wet Pipe	N/A	N/A	KCV0846
1204	A-1	Pipe Space	N	N/A	N/A	None	N/A	N/A	N/A
1205	A-1	Access Area	N	N/A	N/A	None	N/A	N/A	N/A
1206	A-1	Pipe Chase	Y	120	123	Wet Pipe			N/A
1207	A-1	Pipe Chase	Y	120	123	Wet Pipe			N/A
1301	A-8	Corridor #1	Y	117	109	Pre-Action	103	090	KCXV0165
1302	A-8	Filter Compartments	N	N/A	N/A	None	N/A	N/A	N/A
1304	A-29	Aux. Feedwater Pipe Chase	N	N/A	N/A	None	N/A	N/A	N/A
1305	A-30	Aux Feedwater Pipe Chase	Y	120	123	None	N/A	N/A	N/A
1306	A-8	Valve Compartments	N	N/A	N/A	None	N/A	N/A	N/A
1307	A-8	Valve Compartment Corridor	N	N/A	N/A	None	N/A	N/A	N/A

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**Fire Doors 61041 and 61051 may be propped open without compensatory measures established. (SOS 97-1130)

FIRE PROTECTION EQUIPMENT SAFETY RELATED AREAS

General Information			Det.	Early Warning Detection Information		Automatic Suppression Information			
* Room	Fire Area	Area Description	Pres. ?	Detect Zones	KC008 Window	Type	Detect. Zone(s)	KC008 Window(s)	Actuated Component
1308	A-8	Valve Compartments	N	N/A	N/A	None	N/A	N/A	N/A
1309	A-9	Residual Heat Removal Rm. B	N	N/A	N/A	None	N/A	N/A	N/A
1310	A-10	Residual Heat Removal Rm. A	N	N/A	N/A	None	N/A	N/A	N/A
1311	A-8	Aux. Bldg. Sampling Room	Y	117	109	None	N/A	N/A	N/A
1312	A-8	Boron Meter & R.C. Activity Mon Rm	Y	N/A	N/A	Pre-Action	103	090	KCXV0165
1313	A-8	Volume Control Tank Rm.	N	N/A	N/A	None	N/A	N/A	N/A
1314	A-8	Corridor #3	Y	117	109	Pre-Action	103	090	KCXV0165
1315	A-8	CTMT. Spray Additive Tank Area	Y	117	109	Pre-Action	103	090	KCXV0165
1316	A-8	Valve Compartment	Y	N/A	N/A	Pre-Action	103	090	KCXV0165
1317	A-8	Seal Water Heat Exch. Rm.	Y	N/A	N/A	Pre-Action	103	090	KCXV0165
1318	A-8	Valve Compartment	N	N/A	N/A	None	N/A	N/A	N/A
1319	A-8	Demineralizer Compartments	N	N/A	N/A	None	N/A	N/A	N/A
1320	A-8	Corridor #4	Y	N/A	N/A	Pre-Action	103	090	KCXV0165
1321	A-8	Exit Vestibule	Y	102	092	Pre-Action	103	090	KCXV0165
1322	A-25	Pipe Penetration Rm. South	Y	117	109	None	N/A	N/A	N/A
1323	A-24	Pipe Penetration Rm. North	Y	117	109	None	N/A	N/A	N/A
1324	A-29	Feedwater Pump Valve Room #1	N	N/A	N/A	None	N/A	N/A	N/A
1325	A-13	Aux. Feedwater Pump Rm. B	Y	120	123	None	N/A	N/A	N/A
1326	A-14	Aux. Feedwater Pump Rm. A	Y	120	123	None	N/A	N/A	N/A
1327	A-29	Feedwater Pump Valve Room #2	N	N/A	N/A	None	N/A	N/A	N/A
1328	A-30	Feedwater Pump Valve Room #3	Y	120	123	None	N/A	N/A	N/A
1329	A-1	Vestibule	N	N/A	N/A	None	N/A	N/A	N/A
1330	A-30	Feedwater Pump Valve Room #4	N	N/A	N/A	None	N/A	N/A	N/A
1331	A-15	Aux. Feedwater Pump Rm. C	Y	120/111	123/106	Manual	N/A	N/A	KCV0730
1332	LDF	Laundry Decon Facility	Y	116	108	Wet Pipe	N/A	N/A	KCV0582
1333	LDF	Laundry Decon Facility	Y	116	108	Wet Pipe	N/A	N/A	KCV0582
1334	LDF	Laundry Decon Facility	Y	116	108	Wet Pipe	N/A	N/A	KCV0582
1335	A-11	North Electrical Chase	Y	117	109	Wet Pipe	N/A	N/A	KCV0847
1336	A-12	South Electrical Chase	Y	117	109	Wet Pipe	N/A	N/A	KCV0846
1337	LDF	Laundry Decon Facility	Y	116	108	Wet Pipe	N/A	N/A	KCV0582
1338	LDF	Laundry Decon Facility	Y	116	108	Wet Pipe	N/A	N/A	KCV0582
1401	A-16	Comp. Cool Pump & Ht. Exch Area B	Y	118	110	None	N/A	N/A	N/A
1402	A-16	Corridor #1	Y	N/A	N/A	Pre-Action	104	095	KCXV0166
1403	A-27	MG Set Room	Y	N/A	N/A	Halon	105/112	093/094	KC225
1405	A-26	Chemical Staging Area	Y	118	110	None	N/A	N/A	N/A
1406	A-16	Comp. Cool Pump & Ht Exch Area A	Y	118	110	None	N/A	N/A	N/A
1407	A-3	Boric Acid Batching Tank Area	N	N/A	N/A	None	N/A	N/A	N/A
1408	A-16	Corridor #2	Y	118/102	110/092	Pre-Action	104	095	KCXV0166
1409	A-17	Electrical Penetration Rm. South	Y	N/A	N/A	Halon	106/113	097/098	KC226
1410	A-18	Electrical Penetration Rm. North	Y	N/A	N/A	Halon	107/114	099/100	KC224
1411	A-23	Main Feedwater Rm. #1	N	N/A	N/A	None	N/A	N/A	N/A
1412	A-23	Main Feedwater Rm. #2	N	N/A	N/A	None	N/A	N/A	N/A
1413	A-28	Auxiliary Shut Down Panel Room	Y	118	110	None	N/A	N/A	N/A

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FIRE PROTECTION EQUIPMENT SAFETY RELATED AREAS

General Information			Det.	Early Warning Detection Information		Automatic Suppression Information			
* Room	Fire Area	Area Description	Pres. ?	Detect Zones	KC008 Window	Type	Detect. Zone(s)	KC008 Window(s)	Actuated Component
1501	A-21	Control Rm. A/C & Filter Units Rm. B	Y	110	105	None	N/A	N/A	N/A
1502	A-20	Comp. Cool Water Surge Tank Area B	Y	102	092	None	N/A	N/A	N/A
1503	A-20	Comp. Cool Water Surge Tank Area A	N	N/A	N/A	None	N/A	N/A	N/A
1504	A-19	CTMT. Purge Exhaust Rm.	Y	108	101	None	N/A	N/A	N/A
1505	A-20	Corridor	N	N/A	N/A	None	N/A	N/A	N/A
1506	A-19	CTMT. Purge Supply Rm.	Y	109	102	None	N/A	N/A	N/A
1507	A-20	Personnel Hatch Area	Y	108	101	None	N/A	N/A	N/A
1508	A-23	Main Steam Isolation Valve Rm. 1	Y	115	107	None	N/A	N/A	N/A
1509	A-23	Main Steam Isolation Valve Rm. 2	Y	115	107	None	N/A	N/A	N/A
1512	A-22	Control Rm. A/C & Filter Units Rm. A	Y	110	105	None	N/A	N/A	N/A
1513	A-19	Control Bldg. Vent Supply A/C Unit Rm	Y	109	102	None	N/A	N/A	N/A
1601	A-5	Elevator Machine Rm.	N	N/A	N/A	None	N/A	N/A	N/A
3101	C-1	Pipe Space and Tank Area	Y	330	209	Wet Pipe	N/A	NA	KCV0677
3102	CC-1	Comm. Corr. 1974 '	Y	311	003	None	N/A	N/A	N/A
3103	CC-1	Comm. Corr. Stairwell	Y	302	001	None	N/A	N/A	N/A
3104	C-1	Stair C-2	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3105	C-3	South Electrical Chase	Y	330	209	Wet Pipe	N/A	N/A	KCV0848
3106	C-2	North Electrical Chase	Y	330	209	Wet Pipe	N/A	N/A	KCV0848
3201	C-6	Stair C-1	N	N/A	N/A	None	N/A	N/A	N/A
3202	C-6	Controlled HP Tool & Inst Stor. Rm.	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3203	C-6	Hot Janitor's Closet	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3204	C-6	South Hallway	N	N/A	N/A	None	N/A	N/A	N/A
3205	C-6	Men's Locker	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3206	C-6	Men's Shower	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3207	C-6	Corridor	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3208	C-6	ALARA Brief	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3209	C-6	Hall	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3210	C-6	Decon Shower	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3211	C-6	Frisk Area	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3212	C-5	Women's Locker Rm.	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3213	C-5	Woman's Toilet	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3214	C-5	Hall	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3215	C-5	RWP Sign-In	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3216	C-5	Storage Room.	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3217	C-5	Men's Toilet	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3218	C-5	Sign In/Out Area	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3219	C-5	First Aid Rm.	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3220	C-5	Pre-Access Area	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3221	C-5	Vestibule #1	Y	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3222	C-5	Dosimetry Office	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3223	C-5	Fit Test	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3224	C-5	Vestibule #2	N	N/A	N/A	Wet Pipe	N/A	N/A	KCV0844
3225	CC-1	Comm. Corr. Hallway 1984 '	N	N/A	N/A	None	N/A	N/A	N/A

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FIRE PROTECTION EQUIPMENT SAFETY RELATED AREAS

General Information			Det.	Early Warning Detection Information		Automatic Suppression Information			
* Room	Fire Area	Area Description	Pres. ?	Detect Zones	KC008 Window	Type	Detect. Zone(s)	KC008 Window(s)	Actuated Component
3227	CC-1	Comm. Corr. Vestibule	N	N/A	N/A	None	N/A	N/A	N/A
3228	CC-1	Comm. Corr. Hot Laboratory	Y	310	002	None	N/A	N/A	N/A
3229	C-8	South Electrical Chase	Y	300	177	Wet Pipe	N/A	N/A	KCV0848
3230	C-7	North Electrical Chase	Y	300	177	Wet Pipe	N/A	N/A	KCV0848
3231	C-6	Decon Sink Area	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3232	C-6	Decon Area	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3233	C-5	Women's Locker Room	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3234	C-6	Audio Visual Storage	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
3235	C-6	ALARA Brief	Y	300	177	Wet Pipe	N/A	N/A	KCV0844
N/A	C-5	North Area Above Ceiling CB 1984 ' Ele	Y	301	178	Wet Pipe	N/A	N/A	KCV0849
N/A	C-6	South Area Above Ceiling CB 1984 ' Ele	Y	301	178	Wet Pipe	N/A	N/A	KCV0849
3301	C-9	ESF Switchgear Rm. #1	Y	N/A	N/A	Halon	314/315	187/188	KC222
33013	C-37	Elec Chase Col Line C-3, 2000 ' to 2016	N	N/A	N/A	Wet Pipe	N/A	N/A	KVC0848
3302	C-10	ESF Switchgear Rm. #2	Y	N/A	N/A	Halon	316/317	189/190	KC222
33024	C-36	Elec Chase Col Line C-6, 2000 ' to 2016	N	N/A	N/A	Wet Pipe	N/A	N/A	KVC0848
3303	CC-1	Comm. Corr. Hallway 2000 '	Y	310	002	None	N/A	N/A	N/A
3304	CC-1	Comm. Corr. Gen. Floor Area 2000 '	N	N/A	N/A	None	N/A	N/A	N/A
3305	C-11	South Electrical Chase	Y	301	178	Wet Pipe	N/A	N/A	KVC0848
3306	C-12	North Electrical Chase	Y	301	178	Wet Pipe	N/A	N/A	KVC0848
3401	C-35	Corridor #1	N	N/A	N/A	None	N/A	N/A	N/A
3402	CC-1	Comm. Corr. Gen. Floor Area 2016 '	Y	311/302	003/001	None	N/A	N/A	N/A
3403	C-15	Non-Vital Swgr. & Xfmr. Rm. #1	Y	304/305	181/182	None	N/A	N/A	N/A
3404	C-15	Switchboard Rm. 34	Y	321/322	195/196	None	N/A	N/A	N/A
3405	C-15	Battery Rm. #4	Y	303	179	None	N/A	N/A	N/A
3406	C-35	Corridor #2	N	N/A	N/A	None	N/A	N/A	N/A
3407	C-16	Battery Rm. #1	Y	303	179	None	N/A	N/A	N/A
3408	C-16	Switchboard Rm. #1	Y	325/326	203/204	None	N/A	N/A	N/A
3409	C-16	Non-Vital Swgr. & Xfmr. Rm. #2	Y	323/327	197/198	None	N/A	N/A	N/A
3410	C-15	Switchboard Rm. #2	Y	324/328	201/202	None	N/A	N/A	N/A
34102	C-20	Elec Chase Col Line C-6, 2016 ' to 2032	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
3411	C-15	Battery Rm. #2	Y	303	179	None	N/A	N/A	N/A
3412	C-35	Emergency Shower & Eyewash Area	N	N/A	N/A	None	N/A	N/A	N/A
3413	C-16	Battery Rm. #3	Y	303	179	None	N/A	N/A	N/A
3414	C-16	Switchboard Rm. #3	Y	318/320	193/194	None	N/A	N/A	N/A
34142	C-19	Elec Chase Col Line C-3, 2016 ' to 2032	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
3415	C-13	Elec. Equip A/C Units Rm #1	Y	303	179	None	N/A	N/A	N/A
3416	C-14	Elec. Equip A/C Units Rm #2	Y	303	179	None	N/A	N/A	N/A
3418	C-17	South Electrical Chase	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
3419	C-18	North Electrical Chase	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
3501	C-21	Lower Cable Spreading Rm.	Y	N/A	N/A	Pre-Action	306	199	KCXV0364
35011	C-25	Elec Chase Col Line C-6, 2032 ' to 2047	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
35012	C-26	Elec Chase Col Line C-3, 2032 ' to 2047	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
3502	CC-1	Comm. Corr. Lobby 2032 '	Y	302	001	None	N/A	N/A	N/A

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FIRE PROTECTION EQUIPMENT SAFETY RELATED AREAS

General Information			Det.	Early Warning Detection Information		Automatic Suppression Information			
* Room	Fire Area	Area Description	Pres. ?	Detect Zones	KC008 Window	Type	Detect. Zone(s)	KC008 Window(s)	Actuated Component
3503	CC-1	Comm. Corr. Gen. Floor Area 2032 '	Y	302	001	None	N/A	N/A	N/A
3504	C-24	North Electrical Chase	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
3505	C-23	South Electrical Chase	Y	303	179	Wet Pipe	N/A	N/A	KCV0848
36053	C-32	Elec Chase Col Line C-6, 2047 ' to 2073	Y	308	180	None	N/A	N/A	N/A
3601	C-27	Control Room	Y	308	180	None	N/A	N/A	N/A
3602	C-28	Pantry	Y	308	180	None	N/A	N/A	N/A
3603	C-27	Shift Supervisor's Office	Y	308	180	None	N/A	N/A	N/A
3604	C-27	Foyer	N	N/A	N/A	None	N/A	N/A	N/A
3605	C-27	Equipment Cabinet Area	Y	308	180	None	N/A	N/A	N/A
3606	C-27	Emergency Equipment Storage Rm.	Y	308	180	None	N/A	N/A	N/A
3607	C-28	Toilet	N	N/A	N/A	None	N/A	N/A	N/A
3608	C-28	Janitor's Closet	Y	308	180	None	N/A	N/A	N/A
3609	C-29	SAS Rm.	Y	308	180	None	N/A	N/A	N/A
3614	CC-1	Comm. Corr. Hallway 2047 '	N	N/A	N/A	None	N/A	N/A	N/A
3616	C-6	Vestibule	N	N/A	N/A	None	N/A	N/A	N/A
3617	C-30	South Electrical Chase	Y	308	180	None	N/A	N/A	N/A
3618	C-31	North Electrical Chase	Y	308	180	None	N/A	N/A	N/A
3619	CC-1	Comm. Corr. Platform 2047 '	N	N/A	N/A	None	N/A	N/A	N/A
3701	CC-1	Comm. Corr. Gen. Floor Area 2061 '	Y	302	001	None	N/A	N/A	N/A
3705	CC-1	Comm. Corr. Battery Room	Y	302	001	None	N/A	N/A	N/A
3801	C-22	Upper Cable Spreading Rm.	Y	N/A	N/A	Pre-Action	307	205	KCXV0365
38012	C-34	Elec Chase Column Line C-6, 2073 '	Y	308	180	None	N/A	N/A	N/A
3803	CC-1	Comm. Corr. Lobby 2073 '	Y	302	001	None	N/A	N/A	N/A
3804	C-33	South Electrical Chase	Y	308	180	None	N/A	N/A	N/A
4101	T-1	Turbine South Stairwell	Y	413	015	None	N/A	N/A	N/A
4301	T-2	Turbine Gen. Floor Area 2000 '	Y	N/A	N/A	Pre-Action	405	054	KCXV0470
4315	AB-1	Aux. Boiler Room	Y	406	009	Wet Pipe	N/A	N/A	KCV0843
4401	T-2	Turbine Gen. Floor Area 2033 '	Y	N/A	N/A	Pre-Action	404	053	KCXV0469
4501	T-2	Turbine Gen. Floor Area 2065 '	N	N/A	N/A	None	N/A	N/A	N/A
5201	D-2	Diesel Generator Room B (West)	Y	501	206	Pre-Action	502	022	KCXV0562
5203	D-1	Diesel Generator Room A (East)	Y	500	113	Pre-Action	503	169	KCXV0561
6101	F-1	Stair F-1	N	N/A	N/A	None	N/A	N/A	N/A
6102	F-1	Laydown Area	Y	602	115	Pre-Action	600	171	KCXV0661
6104	F-2	Fuel Pool Cooling Heat Exch. Rm. B **	Y	601	114	None	N/A	N/A	N/A
6105	F-3	Fuel Pool Cooling Heat Exch. Rm. A **	Y	601	114	None	N/A	N/A	N/A
6201	F-1	Passage	N	N/A	N/A	None	N/A	N/A	N/A
6202	F-5	Electrical Equipment Rm.	Y	601	114	None	N/A	N/A	N/A
6203	F-4	Air Handling Equip. Rm.	Y	601	114	None	N/A	N/A	N/A
6210	F-1	New Fuel Storage Area	N	602	115	None	N/A	N/A	N/A
6301	F-1	General Floor Area	N	602	115	None	N/A	N/A	N/A
6302	F-1	Laydown Area	N	602	115	None	N/A	N/A	N/A

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**FIRE PROTECTION EQUIPMENT
SAFETY RELATED AREAS**

General Information			Det.	Early Warning Detection Information		Automatic Suppression Information			
* Room	Fire Area	Area Description	Pres. ?	Detect Zones	KC008 Window	Type	Detect. Zone(s)	KC008 Window(s)	Actuated Component
6303	F-7	Exhaust Filter Absorber Rm. A	Y	601	114	None	N/A	N/A	N/A
6304	F-6	Exhaust Filter Absorber Rm. B	Y	601	114	None	N/A	N/A	N/A
7133	RW-1	Non-Radioactive Radwaste Tunnel	Y	705	121	None	N/A	N/A	N/A
7134	RW-1	Radioactive Radwaste Tunnel	N	N/A	N/A	None	N/A	N/A	N/A
8501		Ram Storage Building	Y	801	124	Wet Pipe	N/A	N/A	KCV0578

*Rooms without room numbers are identified with door numbers.

**Fire Doors 61041 and 61051 may be propped open without compensatory measures established. (SOS 97-1130)

FIRE PROTECTION EQUIPMENT NON-SAFETY RELATED AREAS

OPERABILITY REQUIREMENTS

All Fire Protection Equipment protecting non-safety related areas should be operable at all times.

ACTION OPERABILITY REQUIREMENTS ARE NOT MET

A. Detection and Suppression Systems: With one or more of the suppression or detection systems listed below not Operable within one hour perform the compensatory actions as stated in the "Description of Compensatory Actions" column.

B. Other Fire Protection Equipment (hosestations, hydrants, etc.): No action required.

Note: Minor deviations in the time required to establish a fire watch or minor deviations in the time between fire watch rounds are acceptable.

See procedure step 4.1.4 for bases of these requirements.

* Fire watch requirements marked with an asterisk are applicable only when the building is not occupied.

Fire watch for Maintenance rule risk/station blackout concerns (Not regulatory or insurance requirement)

Building Area	System	Description of Compensatory Actions	Detection Zone/Win.	Pressure Switch Zone/ Win	Panel	Actuated Component	Isolation Valve	Detector Type	Plan Drawing	Diagram or Schematic
<i>Annex</i>	Detection	No Action Required	N/A / 249	None	FCPUB8001	N/A	N/A	Smoke/Heat	Z-1006-00026	None
<i>Aux Boiler</i>	Detection	No Action Required	406/009	None	N/A	N/A	N/A	Infrared	E-2F1301	M-651-00059
	Wet Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch in Room 4315	None	461/058	KC311	KCV0843	KCV0028	N/A	M-650-00026	M022KC01
<i>Callaway Multipurpose Building (CMB)</i>	Detection	No Action Required					N/A			
	Garage Wetpipe Sprinkler System	No Action Required				N/A	KCV5203	N/A	8600-X-90485 8600-X-90486	
	Standpipes (E Corridor and West)	No Action Required				N/A	KCV5207	N/A	8600-X-90486	
<i>Circ. Serv. Water Pumphouse</i>	Early Warning Detection	No Action Required	N/A / 253	None	FCPDA2101	N/A	N/A	Smoke	8600-X-88587, 88588	8600-X-88582
<i>Communication Corridor</i>	Detection-2016' - 2061' 6"	Establish 1-1/2 hr. Fire Watch in rooms 3402, 3502, 3503, 3612, 3701, 3703, 3705, 3802 & 3803	302/001	None	N/A	N/A	N/A	Smoke	E-2F3301, 3305	M-651-00059
	Detection-1984' & 2000'	Establish 1-1/2 hr. Fire Watch in rooms 3226, 3228 & 3307	310/002	None	N/A	N/A	N/A	Smoke	E-2F3301, 3101, 3201	M-651-00059
	Detection-Elevator Lobby	No Action Required	311/003	None	N/A	N/A	N/A	Smoke	E-2F3101, 3301, 3501	M-651-00059
	Detection-BOP Computer Room Under Floor	Establish 1-1/2 hr. Fire Watch in rooms 3613 & 3613B	312/004	None	N/A	N/A	N/A	Smoke	E-2F3501	M-651-00059
	Pre-Action Sprinkler & Associated Detection - Conference, EO Ready, BOP Computer Room	Establish 1-1/2 hr. Fire Watch in rooms 3613, 3613A, 3613B	313/005	374/050	KC362	KCXV0374	KCV0479	Varies	E-2F3501	M-651-00059

FIRE PROTECTION EQUIPMENT NON-SAFETY RELATED AREAS

Building Area	System	Description of Compensatory Actions	Detection Zone/Win.	Pressure Switch Zone/ Win	Panel	Actuated Component	Isolation Valve	Detector Type	Plan Drawing	Diagram or Schematic
	Wet Pipe Sprinkler-Lube Oil Storage Room	Establish 1-1/2 hr. Fire Watch in room 3307	None	377/075	N/A	KCV0649	KCV0650	N/A	M-650-00095	M-22KC01
<i>Cooling Water Chem. Ctl.</i>	Detection	No Action Required	N/A / 246	None	FCPDD1001	N/A	N/A	Smoke	8600-X-89186	8600-X-89197
<i>CPF/Security Office</i>	Detection	No Action Required	N/A / 243	None	FCPUB9001	N/A	N/A	Smoke	8600-X-89995, 89996, 89941	None
<i>Demineralization Building</i>	Detection	No Action Required	N/A / 252	None	FCPAN1001	N/A	N/A	Smoke	8600-X-88723	None
<i>EOF</i>	Detection	No Action Required	N/A / 271	None	KC505	N/A	N/A	Smoke	A-UAF-25	None
<i>Fire Pumphouse</i>	Wet Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch in all three rooms (M-20)	None	N/A / 244	CPKC1004	SKC1040	VKC1003	N/A	None	8600-X-88199, 89634
<i>Intake Structure</i>	Detection	No Action Required	N/A / 260	None	FCPDE2001	N/A	N/A	Smoke	8600-X-88937	8600-X-88917
<i>Laundry Decon Facility</i>	Wet Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch 1332, 1333, 1334, 1337, & 1338	116/108	171/126	KC363	KCV0582	KCV0580	Smoke	E-2F1161	M-651-00063
<i>Main Access Facility</i>	Detection	No Action Required	N/A / 243	None	FCPUB3001	N/A	N/A	Smoke	8600-X-89322 (Safeguards)	8600-X-89382
	Wet Pipe Sprinklers	No Action Required	None	N/A / 243	N/A	SUB3070	VUB3001	N/A	8600-X-89335	8600-X-89392
<i>Microwave Repeater Station</i>	Detection	No Action Required	N/A / 247	None	N/A	N/A	N/A	N/A	N/A	N/A
<i>Oil Transfer & Storage</i>	Detection	No Action Required	N/A / 262	None	FCPJA1001	N/A	N/A	Smoke	8600-X-89957	8600-X-88956
<i>Oily Waste</i>	Detection	No Action Required	N/A / 254	None	FCPLE1001	N/A	N/A	Smoke	8600-X-88937	8600-X-88917
<i>Outage Maintenance Facility</i>	Wet Pipe Sprinklers	Establish 1-1/2 hr. Fire Watch throughout building (OMF)	None	N/A / 265	FCPU17001	N/A	VKC1152	N/A	8600-X-90391	8600-X-90411
<i>Radwaste Building</i>	Detection-N. Area & Dry Waste Compactor alarm	Establish 1-1/2 hr. Fire Watch rooms 7202, 7203, 7209, 7232, 7216, 7222, 7228 & 7305	700/116	None	N/A	N/A	N/A	Smoke	E-2F7201, 7301	M-651-00063
	Detection-N. Area 2031 '6" El.	Establish 1-1/2 hr. Fire Watch in rooms 7302, 7303 & 7403	701/117	None	N/A	N/A	N/A	Smoke	E-2F7201	M-651-00053
	Detection-E. Area 2031 '6" El.	Establish 1-1/2 hr. Fire Watch in rooms 7407, 7410 & 7403	702/118	None	N/A	N/A	N/A	Smoke	E-2F7201	M-651-00063
	Detection-Truck Bay, 2000' El.	Establish 1-1/2 hr. Fire Watch in rooms 7228 & 7226	703/119	None	N/A	N/A	N/A	Infrared	E-2F7201	M-651-00063
	Detection Tunnel	Establish 1-1/2 hr. Fire Watch in rooms 7117, 7113, 7109 & 7133	705/121	None	N/A	N/A	N/A	Smoke	E-2F7101, 1161	M-651-00063
	Wet Pipe Sprinklers-Dry Waste Compactor	Establish 1-1/2 hr. Fire Watch in rooms 7228	None	761/164	KC254	KCV0845	KCV0347	N/A	M-650-00057	M-22KC03

FIRE PROTECTION EQUIPMENT NON-SAFETY RELATED AREAS

Building Area	System	Description of Compensatory Actions	Detection Zone/Win.	Pressure Switch Zone/ Win	Panel	Actuated Component	Isolation Valve	Detector Type	Plan Drawing	Diagram or Schematic
<i>RAM Storage Building</i>	Detection Wet Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch in Room 8501	801/124	802/125	TB85101	KCV0578	KCV0579	Smoke	E-2F1501	M-650-00185
<i>Secondary Access Facility</i>	Detection	No Action Required	N/A / 267	None	FCPUB3031	N/A	N/A	Smoke	8600-X-89547	8600-X-89549
<i>Security DG Building</i>	Wet Pipe Sprinklers	# 1-1/2 hour fire watch in building	None	N/A / 251	FCPUB3051	SUB3062	VKC1067	N/A	None	8600-X-89517
<i>Service Building</i>	Detection	No Action Required	N/A / 241	None	FCPUB1001	N/A	N/A	Smoke/ Heat	8600-X-90254, 90255, 90188, 90191, 90194	8600-X-88502, 89868, 90209
	Pre-Action Sprinkler & Associated Detection-QA Vault	*Establish 1-1/2 hr. Fire Watch in room 127 (SBQAV)	N/A / 241	N/A / 241	N/A	VKC1123	VKC1122	Heat	8600-X-90178, 90188	None
	Wet Pipe Sprinkler-Tool Room/Consumable Storage	*Establish 1-1/2 hr. Fire Watch in rooms 174 & 175 (SBTRCR)	None	N/A / 241, 257	N/A	SUB1099	VUB15021	N/A	8600-X-88691	None
	Wet Pipe Sprinkler-Compressor Room	*Establish 1-1/2 hr. Fire Watch in room 172 (SBACR)	None	N/A / 241	N/A	SUB1099	VUB1110	N/A	FP Z-1033-00001	None
	Wet Pipe Sprinkler-3rd Floor, SE Area	No Action Required	None	N/A / 241	N/A	VKC1135	VKC1133	N/A	8600-X-90180	None
	Wet Pipe Sprinkler-Water Curtain outside south windows	No Action Required	None	N/A / 241	N/A	VKC1130	VKC1131	N/A	8600-X-90180	None
	Halon & Associated Detection-Telephone Room	*Establish 1-1/2 hr. Fire Watch in room 161 (SBTR)	N/A / 241	N/A / 241	FCPUB1003	N/A	N/A	Smoke	8600-X-90254, FP 104830	8600-X-89868
	Halon & Associated Detection-Microwave Room	*Establish 1-1/2 hr. Fire Watch in room 162 (SBMR)	N/A / 241	N/A / 241	FCPUB1004	N/A	N/A	Smoke	8600-X-90254, FP 104830	8600-X-89868
	Halon & Associated Detection-HP Computer Room	*Establish 1-1/2 hr. Fire Watch in room 150 (SBHP)	N/A / 241	N/A / 241	FCPUB1005	N/A	N/A	Smoke	8600-X-90254, FP 104919	8600-X-89868
	Halon & Associated Detection-NIS Computer Room	*Establish 1-1/2 hr. Fire Watch rooms 250 (SBC1), 251(SBC2) & 252 (SBC3)	N/A / 241	N/A / 241	FCPUB1006	N/A	N/A	Smoke	8600-X-90255, FP Z-1033-00003	8600-X-89868
<i>Stores 1</i>	Detection	No Action Required	N/A / 242	None	FCPUB2001	N/A	N/A	Smoke	8600-X-88468	8600-X-88473
	Wet Pipe Sprinkler	*Establish 1-1/2 hr. Fire Watch in all areas except Radiograph Storage Vault(S1NIV)	None	N/A / 242, 258	N/A	SUB2030	VKC1039 VKC1202	N/A	8600-X-88694	8600-X-88473
	Halon & Associated Detection Radiograph Storage Vault	*1-1/2 hr. Fire Watch in Radiograph Storage Vault (S1-RV)	N/A / 242, 250	N/A / 242, 250	FCPUB2002	N/A	N/A	Smoke	8600-X-88468	8600-X-88473

FIRE PROTECTION EQUIPMENT NON-SAFETY RELATED AREAS

Building Area	System	Description of Compensatory Actions	Detection Zone/Win.	Pressure Switch Zone/ Win	Panel	Actuated Component	Isolation Valve	Detector Type	Plan Drawing	Diagram or Schematic
<i>Stores II</i>	Detection - Level 'A'	No action	N/A / 243	N/A / 243	FCPU11001	N/A	N/A	Smoke	8600-X-09433	8600-X-09435
	Dry Pipe Sprinkler #1	*Establish 1-1/2 hr. Fire Watch in the area protected by system 1 (S2A1)	None	N/A / 243	FCPU11001	VKC1162	VKC1147	N/A	8600-X-90322	8600-X-09435
	Dry Pipe Sprinkler #2	*Establish 1-1/2 hr. Fire Watch in the area protected by system 2 (S2A2)	None	N/A / 243	FCPU11001	VKC1163	VKC1148	N/A	8500-X-90322	8600-X-09435
	Dry Pipe Sprinkler #3	*Establish 1-1/2 hr. Fire Watch in the area protected by system 3 (S2A3) (S2LA)	None	N/A / 243	FCPU11001	VKC1164	VKC1149	N/A	8600-X-90322	8600-X-09435
	Dry Pipe Sprinkler #4	*Establish 1-1/2 hr. Fire Watch in the area protected by system 4 (S2A4)	None	N/A / 243	FCPU11001	VKC1165	VKC1150	N/A	8600-X-90322	8600-X-09435
<i>Switchyard Control House</i>	Detection	# Establish 1-1/2 hour fire watch in building	N/A / 259	None	KC507	N/A	N/A	Smoke	8616-X-95421	None
<i>Site Switchgear Bldg.</i>	Detection	No Action Required	N/A / 261	None	FCPUB3052	N/A	N/A	Smoke	8600-x-89520	8600-X-89517
<i>Training Center</i>	Detection	*Establish 1-1/2 hr. Fire Watch throughout building excluding simulator & computer room (TC-G)	N/A / 263	None	KC504	N/A	N/A	Smoke	FP A-UAC-19	FP A-040-U-15H10 & 11
	Halon & Associated Detection-Simulator Room	*Establish 1-1/2 hr Fire Watch in rooms (TC-S)	N/A / 263	N/A / 263	KC502A KC502B	N/A	N/A	Smoke	FP A-UAC-19	FP A-040-U-15H03, 04, 06, 08 & 10
	Halon & Associated Detection-Computer Room	*Establish 1-1/2 hr Fire Watch in rooms (TC-C)	N/A / 263	N/A / 263	KC503A KC503B	N/A	N/A	Smoke	FP A-UAC-19	FP A-040-U-15H03, 04, 06, 07 & 09
<i>Transformers</i>	ESF XNB01 Spray & Associated Detection	Establish 1-1/2 hr. Fire Watch at ESF Transformers (outside door 33031) (33031O)	016/037	069/047	KC307	KCXV0069	KCV0720	Heat	M-650-00068 & E-2F0221	M-22KC01
	ESF XNB02 Spray & Associated Detection	Establish 1-1/2 hr. Fire Watch at the ESF Transformers (outside door 33031) (33031O)	017/038	070/049	KC308	KCXV0070	KCV0721	Heat	M-650-00068 & E-2F0221	M-22KC01
	Fire Barrier between XNB01 & XNB02 (includes the pit beneath and the gravel within pit)	Establish 1-1/2 hr. Fire Watch at the ESF Transformers (outside door 33031) (33031O)	N/A	N/A	N/A	N/A	N/A	N/A		N/A

FIRE PROTECTION EQUIPMENT NON-SAFETY RELATED AREAS

Building Area	System	Description of Compensatory Actions	Detection Zone/Win.	Pressure Switch Zone/ Win	Panel	Actuated Component	Isolation Valve	Detector Type	Plan Drawing	Diagram or Schematic
<i>Transformers (cont'd)</i>	Main XMA01 - Phase A X-Zoned Spray & Associated Detection	No Action Required	003, 004/ 025, 026	061/039	KC295	KCXV0061	KCV0714	Heat	M-650-00035 & E-2F0221	M-22KC01
	Main XMA01 - Phase B X-Zoned Spray & Associated Detection	No Action Required	005 006/ 027, 028	062/041	KC296	KCXV0062	KCV0713	Heat	M-650-00035 & E-2F0221	M-22KC01
	Main XMA01 - Phase C X-Zoned Spray & Associated Detection	No Action Required	007, 008/ 029, 030	063/042	KC298	KCXV0063	KCV0711	Heat	M-650-00035 & E-2F0221	M-22KC01
	Startup XMR01 X-Zoned Spray & Associated Detection	No Action Required	012, 013/ 033, 034	066/044	KC301	KCXV0066	KCV0723	Heat	M-650-00045 & E-2F0221	M-22KC01
	Fire Barrier between Main Transformers (including pits beneath transformers and gravel within pits).	No Action Required	N/A	N/A	N/A	N/A	N/A	N/A	C-2C0902	N/A
	Station Service XPB03 Spray & Associated Detection	No Action Required	014/035	067/045	KC299	KCXV0067	KCV0722	Heat	M-650-00039 & E-2F0221	M-22KC01
	Station Service XPB04 Spray & Associated Detection	No Action Required	015/036	068/046	KC300	KCXV0068	KCV0726	Heat	M-650-00039 & E-2F0221	M-22KC01
	Unit Auxiliary XMA02 Spray & Associated Detection	No Action Required	011/031	065/043	KC297	KCXV0065	KCV0712	Heat	M-650-00041 & E-2F0221	M-22KC01
<i>Technical Support Center</i>	Sprinklers - DG Room	No Action Required	None	N/A / 255	KC500	KCFSH5130	KCV5002	N/A	FP A-UAT-13	None
	Detection	No Action Required	N/A / 255	None	KC500	N/A	N/A	Smoke	FP A-UAT-16	None
<i>Turbine Building</i>	1983' Condenser Pit Wet Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch in rooms 4201 & 4204	None	471/069	KC302	KCV0840	KCV0323	N/A	M-650-00025	M-22KC01
	2000' North Area Pre-Action Sprinkler & Associated Detection	Establish 1-1/2 hr. Fire Watch in rooms 4301N, 4324, 4325 & 4321	403/052	468/066	KC287	KCXV0468	KCV0051	Heat	M-650-00069 & E-2F4301	M-22KC01
	2000' South Area Pre-Action Sprinkler & Associated Detection	Establish 1-1/2 hr. Fire Watch in rooms 4301S, 4302, 4322 & 4321	405/054	470/068	KC288	KCXV0470	KCV0026	Heat	M-650-00013 & E-2F4301	M-22KC01
	2033' North Area Pre-Action Sprinkler & Associated Detection	Establish 1-1/2 hr. Fire Watch in room 4401N	402/051	457/065	KC285	KCXV0467	KCV0050	Heat	M-650-00074 & E-2F4401	M-22KC01
	2033' South Area Pre-Action Sprinkler & Associated Detection	Establish 1-1/2 hr. Fire Watch in room 4401S	404/053	469/067	KC286	KCXV0469	KCV0293	Heat	M-650-00008 & E-2F4401	M-22KC01
	Lube Oil Reservoir Room West Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch in room 4403	None	462/059	KC320	KCV0842	KCV0029	N/A	M-650-00002	M-22KC01

FIRE PROTECTION EQUIPMENT NON-SAFETY RELATED AREAS

Building Area	System	Description of Compensatory Actions	Detection Zone/Win.	Pressure Switch Zone/ Win	Panel	Actuated Component	Isolation Valve	Detector Type	Plan Drawing	Diagram or Schematic
	Lube Oil Storage Tank Room Wet Pipe Sprinkler	Establish 1-1/2 hr. Fire Watch in room 4308	None	460/057	KC319	KCV0841	KCV0038	N/A	M-650-00003	M-22KC01
<i>Turbine Building (cont'd)</i>	FW Pump Turbine PAE01A Manual Spray	No Action Required	None	466/063	N/A	KCV0718	N/A	N/A	M-650-00017	M-22KC01
	FW Pump Turbine PAE01B Manual Spray	No Action Required	None	465/062	N/A	KCV0719	N/A	N/A	M-650-00017	M-22KC01
	Turbine Generator Bearings Manual Spray	No Action Required	None	464/061	N/A	KCV0715	N/A	N/A	M-650-00021	M-22KC01
	Hydrogen Seal Oil Unit Spray & Associated Detection	Establish 1-1/2 hr. Fire Watch at Hydrogen Seal Oil Unit (4401SO)	407/055	463/060	KC321	KCXV0463	KCV0063	Heat	M-650-00005 & E-2F4401	M-22KC01
	Detection zone 400, Lube Oil Storage, Lube Oil Reservoir, Battery Room & SE Stairwell	Establish 1-1/2 hr. Fire Watch in rooms 4308, 4402, 4403 & 4313	400/006	None	N/A	N/A	N/A	Smoke	E-2F4301, 4401	M-651-00059
	Detection-Elevator Lobby	Establish 1-1/2 hr. Fire Watch just outside elevator at 1983 ' (4201L) 2000 ' (4301L), 2033 ' (4401L), & 2065 ' (4501L) elevations	401/007	None	NA/	N/A	N/A	Smoke	E-2F4201, 4301, 4401, 4501	M-651-00059
	Detection-Main Turbine Bearings	Establish 1-1/2 hr. Fire Watch at Turbine Generator (4501TG)	408/010	None	N/A	N/A	N/A	Heat	E-2F4501	M-651-00059
	Detection-Feed Pump PAE01A	Establish 1-1/2 hr. Fire Watch at Feed Water Pump "A" (4301FP)	409/011	None	N/A	N/A	N/A	Heat	E-2F4201, 4301	M-651-00059
	Detection-Feed Pump PAE01B	Establish 1-1/2 hr. Fire Watch at Feed Water Pump "B" (4301FP)	410/012	None	N/A	N/A	N/A	Heat	E-2F4201, 4301	M-651-00059
	Detection-NE Stairway, 1983 ' Chemical Storage	Establish 1-1/2 hr. Fire Watch in chemical storage shack (4204CS) (near 4204) & 4312	411/013	None	N/A	N/A	N/A	Smoke	E-2F4201	M-651-00059
	Detection-NW Stairway & Battery Room	Establish 1-1/2 hr. Fire Watch in room 4404 & 4310	412/014	None	N/A	N/A	N/A	Smoke	E-2F4401	M-651-00059
	Detection-SW Stairway	Establish 1-1/2 hr. Fire Watch in rooms 4504, 4101 & 4309	413/015	None	N/A	N/A	N/A	Smoke	E-2F4501	M-651-00059
	Detection-Process Sample & Cold Chemical Lab	Establish 1-1/2 hr. Fire Watch in rooms 4317 & 4323	414/022	None	N/A	N/A	N/A	Smoke	E-2F4301	M-651-00059
<i>Water Treatment</i>	Detection	No Action Required	N/A / 245	None	FCPDE3001	N/A	N/A	Smoke	8600-X-88820	None

MAINTENANCE RULE APPLICABLE SUBSYSTEMS/COMPONENTS

Components		Fire Area	Unavailability Hour Goal/Refueling Cycle
Master Component	Subcomponents		
KC222	KCXSH0314 KCXSH0315 KCXSH0316 KCXSH0317 DSK33012 DSK33011 DSK33023 DSK33021 DSK33022 DSK33012	C-9 C-10	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KC224	KCXSH0107 KCXSH0114 DSK14101 DSK14102	A-18	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KC226	KCSH0106 KCXSH0113 DSK14091 DSK14092	A-17	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KC225	KCXSH0105 KCXSH0112 DSK14031 DSK14032	A-27	See EDP-ZZ-01128, Appendix 2, page 12 of 13.

MAINTENANCE RULE APPLICABLE SUBSYSTEMS/COMPONENTS

Components		Fire Area	Unavailability Hour Goal
Master Component	Subcomponents		
KC227	KCXSH0309 KCXSH0319	C-27	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KCV0484		A1-1B	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KCV0848	KCV0440	C-18 C-23 C-24 C-30 C-33	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KCV0849	KCV0439	C-5	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KCXV0166	KCXSH0104 KCV0445 KC256	A-16	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
KCXV0365	KCXSH0307 KCV0442 KC261	C-22	See EDP-ZZ-01128, Appendix 2, page 12 of 13.
NB SWGR ROOM KC PIPING			See EDP-ZZ-01128, Appendix 2, page 12 of 13.